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From 100

U.S. DEPARTMENT OF THE TREASURY
(United States. Assay
Commission.)



Title:
**The
Bicentennial
Assay Commission**

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AGENDA
FOR THE PROCEEDINGS OF THE
ANNUAL ASSAY COMMISSION FOR 1976
WEDNESDAY MORNING, FEBRUARY 11

1. By the Director of the Mint

- (a) Call to order
- (b) Roll call and announcement of quorum
- (c) Introduction of members of the Commission and delivery of Presidential certificates
- (d) Delivery of the pyx to the Commission
- (e) Surrender of chair to the Chief Judge, District Court for the Eastern District of Pennsylvania, Temporary Chairman

2. By the Temporary Chairman

- (a) Call for nominations for Permanent Chairman
- (b) Election of Permanent Chairman
- (c) Surrender of chair to Permanent Chairman

3. By Permanent Chairman

- (a) Motion to approve selection of Secretary of the Commission
- (b) Adoption of rules for organization and government of the Assay Commission
- (c) Appointment of Committee on Assaying, Committee on Weighing and Committee on Counting, each with a chairman. (Suggest 10 minute recess while Chairman appoints committees)
- (d) Call for delivery of weights to be used by the Commission

4. By the representative, National Bureau of Standards

- (a) Delivery of two sets of weights (assay set and coin and grain set) with appropriate certification of the Bureau of Standards

5. By the Permanent Chairman

- (a) Delivery of the assay weights to the Chairman of the Committee on Assaying
- (b) Delivery of the coin and grain weights to the Chairman of the Committee on Weighing
- (c) Recess of Commission so that the several committees may perform their respective duties

Wednesday Afternoon, February 11

1. By the Permanent Chairman

- (a) Reconvene Commission
- (b) Call roll and announce quorum
- (c) Request report by Chairman, Committee on Counting; read report; inquire whether there are any questions; request motion for action on the report
- (d) Similar procedure in reference to reports from Committee on Assaying and Committee on Weighing
- (e) Request motion for action on the following resolution:
Resolved, That in accordance with the provisions of Title 31, and appertaining to sections thereto of the United States Code, the Assay Commission for 1976, having examined and tested the coins reserved for assay, do hereby find, conclude and determine that inasmuch as such coins do not differ from the standard fineness and weight by a greater quantity than is allowed by law, the trial is hereby considered and reported as satisfactory
- (f) If an adverse vote should result on the foregoing resolution, the Chairman shall request a motion on a resolution to report the trial as unsatisfactory
- (g) Ask if there is further business
- (h) Request motion to adjourn sine die

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Honorable James E. Smith
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NATIONAL BUREAU OF STANDARDS

Dr. Ernest Ambler
Acting Director
National Bureau of Standards
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ANNUAL ASSAY COINS RESERVED

DURING CALENDAR YEAR 1975

	<u>Philadelphia</u>		<u>Denver</u>		<u>San Francisco</u>	
<u>Denomination</u>	<u>Pieces</u>	<u>Value</u>	<u>Pieces</u>	<u>Value</u>	<u>Pieces</u>	<u>Value</u>
Cupro-nickel clad dollars	860	\$ 860.00	940	\$ 940.00	52	\$ 52.00
Silver clad dollars	--	--	--	--	68	68.00
Cupro-nickel clad halves	4,784	2,392.00	4,610	2,305.00	--	--
Cupro-nickel clad quarters	17,514	4,378.50	10,265	2,566.25	--	--
Cupro-nickel clad dimes	<u>10,282</u>	<u>1,028.20</u>	<u>6,229</u>	<u>622.90</u>	<u>--</u>	<u>--</u>
	<u>33,440</u>	<u>\$8,658.70</u>	<u>22,044</u>	<u>\$6,434.15</u>	<u>120</u>	<u>\$120.00</u>

BUREAU OF THE MINT
DOMESTIC COINAGE EXECUTED DURING CALENDAR YEAR 1975

Denomination	Philadelphia	Denver	San Francisco	Total Value	Total Pieces
DOLLARS - NON-SILVER					
1974 Dated Bicentennial	-0-	\$ 10,051,000.00	-0-	\$ 10,051,000.00	10,051,000
Total Dollars	\$ 83,008,000.00	78,672,710.00	-0-	161,680,710.00	161,680,710
	\$ 83,008,000.00	\$ 88,723,710.00	-0-	\$171,731,710.00	171,731,710
SUBSIDIARY					
Half Dollars - 1974 Dated	\$ 37,495,000.00	\$ 7,220,650.00	-0-	\$ 44,715,650.00	89,431,300
Half Dollars - Bicentennial	81,534,000.00	107,723,000.00	-0-	189,257,000.00	378,514,000
Quarters - 1974 Dated	109,003,000.00	33,483,825.00	-0-	142,486,825.00	569,947,300
Quarters - Bicentennial	109,680,000.00	94,462,000.00	-0-	204,142,000.00	816,568,000
Dimes	51,368,200.00	31,370,530.00	\$7,199,190.00	89,937,920.00	899,379,200
Total Subsidiary	\$389,080,200.00	\$274,260,005.00	\$7,199,190.00	\$670,539,395.00	2,753,839,800
MINOR					
Five-cent Pieces	\$ 9,088,600.00	\$ 20,093,765.00	-0-	\$ 29,182,365.00	583,647,300
One-cent Pieces	1/ 54,514,761.42	45,052,753.00	-0-	99,567,514.42	9,956,751,442
Total Minor	\$ 63,603,361.42	\$ 65,146,518.00	-0-	\$128,749,879.42	10,540,398,742
Total Domestic Coinage	\$535,691,561.42	\$428,130,233.00	\$7,199,190.00	\$971,020,984.42	13,465,970,252

MANUFACTURED AT SAN FRANCISCO ASSAY OFFICE

1975 Proof Coin Sets - 2,909,369

40% Silver Bicentennial Proof Coin Sets - 2,250,302

40% Silver Bicentennial Uncirculated Sets - 2,841,522

4/

FOOTNOTES

1/ Includes \$15,772,941.42 in cents manufactured at West Point Depository.

2/ March 1975 amended to include 10,000,000 Panama One Centavo pieces manufactured at West Point Depository.

3/ October 1975 amended to include Philippine manufactured at San Francisco Assay Office. One Sentimo -

46,630,000; 5 Sentimo - 19,528,000; 10 Sentimo - 17,770,000; 25 Sentimo - 2,896,000.

4/ March 1975 amended to include 24 sets manufactured at San Francisco Assay Office.

COINAGE EXECUTED FOR FOREIGN GOVERNMENTS

Country	No. of Pieces	Country	No. of Pieces
Haiti	33,200,000	Panama	29,317,237
Liberia	13,909,678	Peru	309,697,810
Nepal	73,801	Philippine	375,927,837
		TOTAL	762,126,363

2/

3/

THE TRIAL OF THE PYX

Members of the Annual Assay Commission are participants in a ritual which has persisted throughout the centuries. While its origin is lost in antiquity it is known that the ancient Greeks took much pride in the weight and fineness of their coins and the authorities kept a close check on the coiners. The Romans minted their coins in the Temple of Juno Moneta, and while they may have attributed the fineness of their coins to that goddess, we can be sure that the realistic Romans didn't trust to luck entirely.

From The Coinage of England by Charles Oman we learn that during the period of the Crusades the Anglo-Saxons gave considerable attention to the weight and fineness of their coin. Laws approved by Ethelred's Witan at London in 1002 provided heavy penalties for any mint master who took his tools to a secret place -- a wood is suggested -- and there, out of sight of all witnesses, struck coins which were unsatisfactory in weight or metal. Apparently this was sometimes done in collusion with merchants who went to a moneyer with low-quality foreign pence or base bullion and induced him to recoin them with his dies in a surreptitious fashion.

After the Norman Conquest of England the weight and purity of the King's pennies showed a marked decline. In order to establish a sound money policy and to correct the situation before Christmas in the year 1124, Henry I commanded that all moneyers of England should be deprived of their members. The decree was carried out on some 94 hapless individuals, prompting one chronicler's report that there was a great money scarcity the following year due to lack of moneyers.

A more sociable gathering took place in 1208 when King John summoned his moneyers to Westminster. They brought their workmen, assayers and dies with them, apparently for a general assize and verification of issues like the Trial of the Pyx of later days.

Records tell of an assembly in 1248 of moneyers, custodes cuneorum (die mechanics) and assayers of all the mints. The meeting was attended by Henry III, the Mayor of London and many magnates, at which time a jury of professional goldsmiths made assays of two wedges of silver, one of pure metal and one of the standard coinage metal.

The Trial of the Pyx became established as a continuous and regular ceremony during the reign of Edward III (1327-1376). By his proclamation, it was provided:

"So soom as the moneys are coyned and compleate, the Warden to receave yt as the Master receaveth yt from the monerers, and putt yt in one Chest shut with two keys. And before the moneys bee paid to the Marchant, as the request of the said Master, the Warden shall make tryall of yt, and if yt shall not bee so good as yt is undertaken, yt shalbee retorned to the said Master to bee remolten at his owne proper costs."

This "assize" consisted of placing in small sealed boxes (pyxides) fair, random samples of the gold and silver currencies which were then weighed in the presence of the King's representatives and finally melted down and refined in order that their fineness might be verified. There was a "remedy" allowed for slight excess or defect of weight in individual coins, but the whole bulk of each box was required to correspond to the amount in grains and penny-weights which the sum in the box represented by count. The object of refining, with a small similar "remedy" for loss of metal in the furnace, was to discover whether there was the proper residuum of pure gold or silver left in the cupel after the moderate amount of official alloy had been evaporated in the furnace. The trials were at first at such short intervals - three months - that it was necessary to have a distinguishing privy mark for the coins of each tri-mestral issue, in order that it might be certain that only the most recent emission was being tested.

Alexander Hamilton, in presenting to the Congress in 1791 the result of his "inquiries and reflections" relative to the establishment of a Mint, concluded that the "remedy for errors in the weight and alloy of the coins must necessarily form a part in the system of the Mint; and the manner of applying it will require to be regulated." In his message he described the English system of preserving samples of coinage in the pyx box, for mass assaying by a jury of the Company of Goldsmiths in the presence of the Lord Chancellor, the officers of the Treasury and others.

The Mint of the United States was established in 1792. The same Act of Congress which authorized it also provided for the Annual Assay Commission to be composed of the Chief Justice of the United States, the Secretary and Comptroller of the Treasury, the Secretary of the Department of State and the Attorney General of the United States.

Regular coinage commenced in 1793. However, it has been stated that the first coins from the Philadelphia Mint were silver half dimes, struck in October of 1792, and also some silver dimes. These pieces were in the nature of pattern or experimental strikes. According to the record books of Henry Voigt, the chief coiner, thirty and one-half gallons of rum were purchased during that month. As there were but few employees around the Mint then to consume so much rum, speculation is that some kind of entertainment or celebration took place on this momentous occasion.

Whether an Assay Commission was appointed to examine these early pieces is not known. However, it is believed that the Assay Commission has met each year since it was first created in 1792, with few exceptions. In 1801, when the capital was moved, the February meeting was postponed. It is presumed that the condition of the roads in mid-winter made it impossible to travel with horses from Washington to Philadelphia. When the meeting could not be held on the prescribed date, Elias Boudinot, Director of the Mint, wrote an indignant letter to President John Adams complaining that the public's confidence was being undermined and that the depositors were clamoring for the coins retained for examination. In those days the Mint operated on a "custom" basis, taking in bullion from individuals and returning to them an appropriate weight of coins. Thus the specimens retained for the annual assaying really belonged to the customers of the Mint. Congress solved the problem by providing for a meeting in April of that year.

There is some evidence that an Assay Commission did not meet in 1817 to examine the prior year's silver coinage because there was none. The reason, it appears, was that on January 11, 1816 a fire broke out in the millhouse, an old wooden shack in the Mint's backyard and this blaze spread to the adjoining building which contained the rolling and drawing apparatus necessary to make planchets for gold and silver coins, causing extensive damage which was not repaired until the following year.

The law now provides that the Assay Commission shall be composed of the Judge of the District Court for the Eastern District of Pennsylvania, the Comptroller of the Currency, the Assayer of the Assay Office at New York and such other persons as the President shall designate. The first authorization for the public to serve on the Commission was provided by statute in 1837. Being composed almost entirely of impartial citizens, independent of the Mint service, the Assay Commission reports to the President any deviations in coins beyond the legal limits. The object of its meeting is to insure the greatest care on the part of the coiners in conforming in all respects to legal weights and finenesses. The knowledge that any coin may be selected for this check has an excellent psychological effect upon the officers of the coinage mints, which is of great value in keeping our coinage standards at the highest possible level.

As the annual assay or trial of the coinage takes place after the coin has been issued, any error that might have occurred would not be discovered in time for its prompt correction. It is for this reason that for over fifty years precautionary measures have been instituted to make special assays before coin is released. Each Mint Assayer, an independent official appointed by the President, is required to certify that all coinage ingots prepared in the Mint and strip purchased from outside contractors are within legal limits of deviation before they are delivered to the Coining Division, and no ingots or purchased strip may be used for coinage which are not so certified by the Assayer. After the ingots are received by the coiner,

the latter is required to adjust the weight of the single pieces of coin produced so as to have them conform with the legal limits of tolerance. When a delivery of finished coin is turned over to the Superintendent of the Mint, there is taken at random not less than one piece for each 100,000 pieces, or fractional part thereof, of subsidiary coins and dollars delivered, except that one piece for each 200,000 dimes delivered is taken. Samples are taken for the annual assay without selection or previous weighing. Further, subsidiary coins and dollars from each delivery made to the Superintendent must be sent to the Office of the Director of the Mint in Washington where they are tested for conformity in weight and fineness before they may be released to the Federal Reserve Banks and Branches which distribute the coin to the banking system throughout the Nation.

During calendar year 1975 the United States Mints produced several hundred million pieces of dollars and subsidiary coin. Inasmuch as the pyx box contains many thousand coins taken at random throughout the year from Mint production, it is clear that the Commission could not be expected to examine every single one of them. The Commission is therefore expected to examine only such number as satisfies it as being representative of the whole.

Each year the Commission adopts, with such modifications as it deems appropriate, the set of rules for its organization and government used by the previous Commission. With little change, the same rules have been in effect since 1856 when they were prepared by the Senior Federal Judge in Philadelphia, the District Attorney and the Collector of Customs for the Port of Philadelphia.

RULES PROPOSED FOR ADOPTION BY ASSAY COMMISSION
FOR ITS ORGANIZATION AND GOVERNMENT

I

At the hour appointed for the meeting by the Director of the Mint, if a quorum appears to be present, he shall so announce, and the Judge of the District Court of the United States for the Eastern District of Pennsylvania, or in case of his absence, such member as the Commissioners present may designate, shall take the chair.

II

The letter of the President, or the Director of the Mint, naming the Commissioners who have been specially designated by the President of the United States, will be read and the roll of the members ex-officio, and of the others accepting the appointment will be called.

III

The "reserved" coins having been produced by the officers in charge of them, the several parcels in which they are contained will be opened in the presence of the Commissioners (or of a committee for that purpose appointed, who shall report to the Commission for confirmation) and the coins distributed by them in parcels with reference to their places of coinage, and their metallic character.

But when it shall be made known to the Board of Commissioners that at either of the mints there has taken place during the past year a change in any of the officers who are responsible for the coinage, the coins made during the terms of the respective incumbents will be distributed in separate parcels.

IV

The parcels having been examined and counted, the numbers shown on the parcels will be compared with the number reported as "reserved" and, having been verified, the secretary will note the results on the minutes of the Commission. Such of the parcels as the committee may designate will be opened and counted, and the results thereof reported to the Commission.

V

The Chairman will then arrange the members of the Assay Commission in three committees -- one to take charge of the computing, one of the weighing, and the other of the assaying, with power to associate members interchangeably and to require the manipulatory aid of the officers of the Mint.

VI

Counting

The Committee on Counting shall receive the parcels containing the pieces reserved by each of the Mints for the trial of coins in accordance with provisions in Title 31 of the United States Code. The parcels shall be compared by the committee with the transcripts furnished them and shall be properly verified. The committee shall select parcels from each month's coinage of each Mint, containing all denominations coined, and accurately count the coins therein.

VII

Assaying

(a) The Committee on Assaying shall select several parcels of reserved coins.

(b) They shall select parcels representing each month's coinage of each Mint, and containing all denominations coined, which will include coins of cupro-nickel clad dollars, half dollars, quarters and dimes. They shall remove from each of the parcels chosen such a number of coins from each of the different denominations as will in their best judgment be sufficient for individual test assays.

There shall also be subject to assay in the same ratio silver clad dollars of the uncirculated type.

(c) From such other parcels as they judge to be sufficient for the purpose, they shall remove one or more cupro-nickel clad coins from each denomination to be melted together. In the case of the silver clad alloy, the one dollar uncirculated coin, sufficient pieces shall be selected to represent the entire production for mass melting.

(d) They shall then arrange all the test samples in such order as shall be known only to the members of the committee, and in that order such samples shall be assayed.

(e) Should the operations of the assay be not consummated before the adjournment of the Commission for the day, the parcels of the reserved coins, ingots and test samples will remain in a chest or vault, under the joint separate charge of the Chairman and the Director of the Mint.

VIII

Weighing

(a) The Committee on Weighing shall select several parcels of reserved coins, and shall take at random from the parcels of each Mint such a number of coins of each of the denominations represented and so distributed by dates of coinage as will in its best judgment be sufficient for the purpose of weighing.

(b) The pieces taken shall be severally weighed by the committee, or under the scrutiny thereof, and their respective weights ascertained to an accuracy of not less than 0.10 grain and the results shall be noted with a special reference as to any that may be found without the legal limits of weight.

(c) The committee shall examine the standard weights employed in the Mint and shall satisfy itself that they are satisfactory as to the accuracy in accordance with the standards prescribed by law in Title 31, Section 365, United States Code.

IX

The counting, weighing and assaying having been completed under the scrutiny of the committees, respectively, the committees will report, fully and specifically, as to the coins of each Mint.

X

And thereupon the Commissioners will proceed to declare their judgment by an open vote; and full record thereof, and of all their doings having been engrossed by the secretary, will be signed by all the members and delivered to the Director of the Mint, after which the Commission will adjourn sine die.

The foregoing rules are subject to such modifications or alterations as a majority of the Commission may at any time during each annual assay deem expedient and proper.

XI

Adopted by the Assay Commission of 1898

The Committee on Weighing recommends that the standard weights which are kept specifically for the use of the Assay Commission, and which are retained in the possession of the Director of the Mint, be sent in December of each year by him to the Director of the Bureau of Standards, who shall have them compared with the legal standard and shall forward them each year, under seal, to the Commission with a certification of their accuracy.

ACT OF APRIL 2, 1792

AN ACT ESTABLISHING A MINT AND REGULATING THE COINS
OF THE UNITED STATES

Section 18. And the better to secure a due conformity of the said gold and silver coins to their respective standards, Be it further enacted, That from every separate mass of standard gold or silver, which shall be made into coins at the said Mint, there shall be taken, set apart by the Treasurer and reserved in his custody a certain number of pieces, not less than three, and that once in every year the pieces so set apart and reserved, shall be assayed under the inspection of the Chief Justice of the United States, the Secretary and Comptroller of the Treasury, the Secretary for the Department of State, and the Attorney General of the United States, (who are hereby required to attend for that purpose at the said Mint, on the last Monday in July in each year,) or under the inspection of any three of them, in such manner as they or a majority of them shall direct, and in the presence of the Director, assayer and chief coiner of the said Mint; and if it shall be found that the gold and silver so assayed, shall not be inferior to their respective standards herein before declared more than one part in one hundred and forty-four parts, the officer or officers of the said Mint whom it may concern shall be held excusable; but if any greater inferiority shall appear, it shall be certified to the President of the United States, and the said officer or officers shall be deemed disqualified to hold their respective offices.

Section 19. And be it further enacted, That if any of the gold or silver coins which shall be struck or coined at the said Mint shall be debased or made worse as to the proportion of fine gold or fine silver therein contained, or shall be of less weight or value than the same ought to be pursuant to the directions of this act, through the default or with the connivance of any of the officers or persons who shall be employed at the said Mint, for the purpose of profit or gain, or otherwise with a fraudulent intent, and if any of the said officers or persons shall embezzle any of the metals which shall at any time be committed to their charge for the purpose of being coined, or any of the coins which shall be struck or coined at the said Mint, every such officer or person who shall commit any or either of the said offences, shall be deemed guilty of felony, and shall suffer death.

DEVIATIONS ALLOWED IN ADJUSTING WEIGHTS OF SILVER COINS

In adjusting the weight of silver coins the following deviations shall not be exceeded in any single piece: in the dollar, fifteen and two-tenths grains plus or minus; in the half-dollar, six and two-tenths grains plus or minus; in the quarter-dollar, three and one-tenth grains plus or minus; and in the dime, one and one-half grains plus or minus.

DEVIATIONS ALLOWED IN ADJUSTING WEIGHTS OF CUPRO-NICKEL CLAD COINS

In adjusting the weight of cupro-nickel clad coins the following deviations shall not be exceeded in any single piece: in the dollar, fourteen grains plus or minus; in the half-dollar, seven grains plus or minus; in the quarter-dollar, three and five-tenths grains plus or minus; and in the dime, one and four-tenths grains plus or minus.

SEALING AND TRANSMITTING TRIAL PIECES

Number of Coins Reserved for Assay

"At every delivery of coins made by the Superintendent of the Coining Department to a Superintendent, it shall be the duty of such Superintendent, in the presence of the Assayer, to take indiscriminately a certain number of pieces of each variety for the annual trial of coins, the number for silver clad coins, cupro-nickel clad dollars and other subsidiary cupro-nickel clad coins being not less than one piece for each one hundred thousand pieces or any fractional part of one hundred thousand pieces delivered, and for dimes, one piece for each two hundred thousand pieces delivered."

Sealing of Coins

"The pieces so taken shall be carefully sealed up in an envelope, properly labeled, stating the date of the delivery, the number and denomination of the pieces enclosed, and the amount of the delivery from which they were taken."

Deposit of Coins in Pyx

"These sealed parcels containing the reserved pieces shall be deposited in a Pyx, designated for the purpose at each Mint, which shall be kept under the joint care of the Superintendent and Assayer, and be so secured that neither can have access to its contents without the presence of the other, and the reserved pieces in their sealed envelopes from the coinage of each Mint shall be transmitted quarterly to the Mint at Philadelphia."

Records of Coins Reserved for Assay

"A record shall also be kept at the same time of the number and denomination of the pieces so taken for the annual trial of coins, and of the number and denomination of the pieces represented by them and so delivered, a copy of which record shall be transmitted quarterly to the Director of the Mint."

Other Coins Reserved for Test

"Other pieces may, at any time, be taken for such tests as the Director of the Mint shall prescribe."

Assays of coins are made regularly in the Office of the Director of the Mint in Washington, D. C. The Mint directives relating to these coins provide:

1. One coin each day from each pair of dies in operation is selected at random for special assay. This amounts to approximately one coin for each 100,000 pieces manufactured when the presses are in operation for two shifts per day, and one coin per 150,000 pieces when the presses are in operation for three shifts per day.
2. Such specimen coins shall be taken by the Superintendent or his representative in the presence of the Assayer or his representative, and, without test or selection, shall be protected from attrition and enclosed in envelopes which shall be sealed and labeled to show the place of coinage, the date, number and amount of the delivery, number and denomination of the pieces enclosed; and each such envelope shall bear a certificate signed by the Superintendent and Assayer that the facts are as shown.
3. Said specimen coins so enclosed shall promptly be forwarded by registered mail to the Director for test in the Laboratory in Washington as to their conformity in weight and fineness with the requirements of law.
4. Samples taken from one melt in every ten of "good delivery" or "issue" gold bars and other refined gold bars shall be labeled for identification and be forwarded promptly by registered mail to the Director for test assay in the Laboratory in Washington.
5. The results of the Laboratory tests of said specimen coins and said samples of bullion shall be transmitted to the officer in charge of the Mint institution from which they were received.

ASSAY COMMISSIONERS

To secure a due conformity in the silver-copper clad coins, the cupro-nickel clad dollar and subsidiary cupro-nickel clad coins to their respective standards of fineness and weight, the Judge of the District Court for the Eastern District of Pennsylvania, the Comptroller of the Currency, the Assayer of the Assay Office at New York, and such other persons as the President shall each year designate, shall meet as Assay Commissioners, at the Mint in Philadelphia, to examine and test, in the presence of the Director of the Mint, the fineness and weight of the coins reserved by the several Mints for this purpose, on the second Wednesday, in February, annually, and may continue their meetings by adjournment, if necessary.

If a majority of the Commissioners fail to attend at any time appointed for their meeting, the Director of the Mint shall call a meeting of the Commissioners at such other time as he may deem convenient. If it appears by such examination and test that these coins do not differ from the standard fineness and weight by a greater quantity than is allowed by law, the trial shall be considered and reported as satisfactory. If, however, any greater deviation from the legal standard or weight appears, this fact shall be certified to the President. Upon reviewing the circumstances of the case, if the President determines the officers are implicated in the error, they shall be disqualified from holding their respective offices.

TITLE 31, SECTION 364, UNITED STATES CODE

STANDARD TROY POUND FOR REGULATION OF COINAGE

For the purpose of securing a due conformity in weight of the coins of the United States to the provisions of the laws relating to coinage, the standard troy pound of the Bureau of Standards of the United States shall be the standard troy pound of the Mint of the United States, conformably to which the coinage thereof shall be regulated.

[R.S. Sec. 3548, as amended]

TITLE 31, SECTION 365, UNITED STATES CODE

STANDARD WEIGHTS FOR MINTS AND ASSAY OFFICES

It shall be the duty of the Director of the Mint to procure for each mint and assay office, to be kept safely thereat, a series of standard weights corresponding to the standard troy pound of the Bureau of Standards of the United States, consisting of a one-pound weight and the requisite subdivisions and multiples thereof, from the hundredths part of a grain to twenty-five pounds. The troy weight ordinarily employed in the transactions of such mints and assay offices shall be regulated according to the above standards at least once in every year, under the inspection of the superintendent and assayer; and the accuracy of those used at the mint at Philadelphia shall be tested annually, in the presence of the assay commissioners, at the time of the annual examination and test of coins.

[R.S. Sec. 3549, as amended]

Standard for United States Silver, Silver-Copper Clad,
and Cupro-Nickel Clad Coins

Denomination	Composition	Production Dates	Diameter	Standard Weight		Weight Tolerance	Silver Fineness	Fineness Tolerance		Nickel Content	Nickel Tolerance	
				Inches	Grains			Thousandths	Thousandths		Percent	Percent
Dollar	90% Silver 10% Copper	A. D. 1837 - 1935	1.500	412.5	± 6.0	± 6.0	900	± 6.0	—	—	—	—
Dollar	Silver-Copper Clad	1971 - 1975**	1.500	379.5	± 15.2	± 15.0	400	± 15.0	—	—	—	—
Dollar	Cupro-Nickel Clad	1971 - 1975**	1.500	350.0	± 14.0	—	—	—	—	8.33	± 0.60	—
Half Dollar	90% Silver 10% Copper	1837 - 1964	1.205	192.9	± 4.0	± 6.0	900	± 6.0	—	—	—	—
Half Dollar	Silver-Copper Clad	1965 - 1975**	1.205	177.5	± 6.2	± 15.0	400	± 15.0	—	—	—	—
Half Dollar	Cupro-Nickel Clad	1971 - 1975**	1.205	175.0	± 7.0	—	—	—	—	8.33	± 0.60	—
Quarter Dollar	90% Silver 10% Copper	1837 - 1964	0.955	96.45	± 3.0	± 6.0	900	± 6.0	—	—	—	—
Quarter Dollar	Silver-Copper Clad	1975**	0.955	88.73	± 3.1	± 15.0	400	± 15.0	—	—	—	—
Quarter Dollar	Cupro-Nickel Clad	1965 - 1975**	0.955	87.5	± 3.5	—	—	—	—	8.33	± 0.60	—
Dime	90% Silver 10% Copper	1837 - 1964	0.705	38.58	± 1.5	± 6.0	900	± 6.0	—	—	—	—
Dime	Cupro-Nickel Clad	1965 - 1975	0.705	35.0	± 1.4	—	—	—	—	8.33	± 0.60	—

* None produced 1971 - 1974.

** No quarters, halves, or dollars produced in 1975 were dated 1975. All silver-copper clad coins and some cupro-nickel clad coins were dated 1976-1976. Some cupro-nickel clad quarters, halves, and dollars produced in 1975 were dated 1974.

PROCEEDINGS
OF THE
1976
ANNUAL ASSAY COMMISSION

MEMBERS OF THE ANNUAL ASSAY COMMISSION FOR 1975

Dr. Nelson Page Aspen
633 N. Church Street
West Chester, Pennsylvania 19380

Mr. J. Eric Engstrom
550 Nims, Apt. 315
Wichita, Kansas 67203

Mr. Frederick W. Bertram
104-20 Queens Boulevard, Apt. 10-U
Forest Hills, New York 11375

Mr. Arthur M. Fitts III
602 Park Terrace
Colorado Springs, Colorado 80903

Mrs. Gerda H. M. Birkholz
826 Dunlop Avenue
Forest Park, Illinois 60130

Mr. George D. Hatie
1126 Whittier Road
Grosse Pointe Park, Michigan 48230

Mr. Edward J. Black
197 Duane Place
Twin Palms Mobile Park
Lakeland, Florida 33801

Mr. Gordon B. Hunt
260 E. Graham Avenue
Elsinore, California 92330

Mr. Federico Claveria
163 Cedar Lane
Santa Barbara, California 93180

Mr. William F. Krieg
934 Rundale Avenue
Yeadon, Pennsylvania 19050

Mr. James H. Cohen
3311 Octavia Street
New Orleans, Louisiana 70125

Mr. Wayne A. Lawrence
Route 2, Mill Creek Road
Sidney, Ohio 45365

Mr. Edward K. Elder
816 Morningside Drive, N. E.
Albuquerque, New Mexico 87110

Mr. Claude B. Layfield, Jr.
323 Brookside Drive
Auburn, Alabama 36830

Mr. William E. Elms
3 Joan Street
Brunswick, Maine 04011

Mr. Charles F. Long
31 West Leigh Drive
Charlottesville, Virginia 22901

Mr. Roy T. Englert
6720 Bellamy Avenue
Springfield, Virginia 22152

Mr. F. Morton Reed
1572 Bellevue Drive
Wooster, Ohio 44691

Mr. Andrew Reiz
10001 Howe Drive
Leawood, Kansas 66206

Mr. Fay C. Smith
Box 221 - 125 Dwiggins Street
Griffith, Indiana 46319

Mr. Rudi F. Saenger
8126 Lilly Stone Drive
Bethesda, Maryland 20034

Dr. Charles R. Stearns
5329 Antelope Lane
Stone Mountain, Georgia 30083

Mr. Mark P. Sawyer
P. O. Box 77, Oakland Road
Chadds Ford, Pennsylvania 19317

Mr. Robert E. Steele
303 Superior Avenue
Tomah, Wisconsin 54660

Mr. David J. Shapiro
245 Pierce Road
Highland Park, Illinois 60035

Mr. Adna G. Wilde, Jr.
29 Friendship Lane
Colorado Springs, Colorado 80904

EX-OFFICIO MEMBERS

Honorable Alfred L. Luongo
Judge, United States District Court
Eastern District of Pennsylvania
Philadelphia, Pennsylvania 19107

Honorable James E. Smith
Comptroller of the Currency
Washington, D. C. 20220

Honorable Allan S. Ryan
Assayer
United States Assay Office
New York, New York 10005

REPRESENTATIVE FROM
NATIONAL BUREAU OF STANDARDS

Dr. Richard W. Roberts
Director
National Bureau of Standards
U. S. Department of Commerce
Washington, D. C. 20234

PROCEEDINGS OF THE ANNUAL ASSAY COMMISSION FOR 1975

WEDNESDAY, FEBRUARY 12

In conformity with Section 3547, as amended, of the Revised Statutes of the United States, the Annual Assay Commission appointed by the President of the United States to examine and test the weight and fineness of the coins reserved by the Mints at Philadelphia and Denver, and the United States Assay Office at San Francisco, during the calendar year 1974, met at the U. S. Mint in Philadelphia on the 12th day of February 1975.

The Commission was called to order at 9:20 a.m. for Mrs. Mary Brooks, Director of the Mint, by Mr. Frank H. MacDonald, Acting Director of the Mint, who welcomed the Commission and extended Mrs. Brooks' regrets for being unable to officiate at this historic meeting because of illness. On behalf of President Gerald R. Ford, Mr. MacDonald presented each member with his Commission and relayed the following message from the Director:

"February 12, 1975

"To the 1975 Assay Commissioners:

I have never felt so completely helpless as I feel with this illness. It is with a deep sense of loss that I am not able to be there to greet each of you personally.

I am very glad for each of you that you have been chosen for this Commission, and I must apologize for the extremely late release of your names. I hope it did not cause you any exceptional inconvenience. Under these circumstances, you may well be the most unique and interesting Assay Commission in history.

Please enjoy the day...the lunch...and the banquet. I am sure that with my very able Deputy, Frank MacDonald, and my staff, you will be treated with every possible courtesy.

Sincerely,

*Mary Brooks
Director of the Mint"*

Proceedings of the Annual Assay Commission for 1975

At the request of Mr. MacDonald, Judge Alfred L. Luongo administered the oath of office to the Commissioners.

Mr. MacDonald turned the chair over to Judge Luongo who served as Temporary Chairman of the Commission and called for nominations for a Permanent Chairman. Dr. Charles R. Stearns nominated Mr. Adna G. Wilde, Jr. for Permanent Chairman. The nomination was seconded by Mr. George D. Hatie. Mr. Edward K. Elder moved that the nomination for Permanent Chairman be closed. Mr. Wilde was elected Permanent Chairman by unanimous vote.

Mr. Wilde called for nominations for Secretary. Dr. Nelson Page Aspen nominated Mr. R. Glenn Williamson and the nomination was seconded by Mr. F. Morton Reed. Mr. Williamson was unanimously approved as Secretary.

On succeeding to the chair, Mr. Wilde called to the attention of the Commissioners of the 1975 Assay Commission the rules proposed for adoption. It was moved by Mr. George D. Hatie that the rules be adopted without revision. That motion was seconded by Mr. David J. Shapiro and approved by the Commission.

Chairman Wilde appointed the following members to serve on the Assaying, Counting and Weighing Committees:

Committee on Assaying

Chairman	Dr. Charles R. Stearns
Co-Chairman	Mr. F. Morton Reed
	Dr. Nelson Page Aspen
	Mr. Frederick W. Bertram
	Mr. James H. Cohen
	Mr. Roy T. Englert
	Mr. J. Eric Engstrom
	Mr. Arthur M. Fitts III
	Mr. Wayne A. Lawrence
	Honorable Allan S. Ryan
	Mr. Rudi F. Saenger

Committee on Counting

Chairman	Mr. William F. Krieg
Co-Chairman	Mr. Charles F. Long
	Mr. Edward K. Elder
	Mr. William E. Elms
	Mr. Gordon B. Hunt
	Mr. Claude B. Layfield, Jr.
	Honorable Alfred L. Luongo
	Dr. Richard W. Roberts
	Mr. Mark P. Sawyer

Proceedings of the Annual Assay Commission for 1975

Committee on Weighing

Chairman	Mr. George D. Hatie
Co-Chairman	Mr. Federico Claveria
	Mrs. Gerda H. M. Birkholz
	Mr. Edward J. Black
	Mr. Andrew Reiz
	Mr. David J. Shapiro
	Mr. Fay C. Smith
	Mr. Robert E. Steele
	Honorable James E. Smith

Dr. Richard W. Roberts, Director, National Bureau of Standards, United States Department of Commerce, Washington, D. C. turned over to the Permanent Chairman three sets of weights, which he advised had been tested by that bureau for the use of the Commission in its activities during its current session: one, an assay set; the other two, coin and grain sets. The weights were under the seal of the National Bureau of Standards and were accompanied by certificates signed by Mr. Paul E. Pontius, Chief, Mass and Volume Section, Optical Physics Division, U. S. Department of Commerce, National Bureau of Standards, certifying to the correctness of the several weights in the three sets. The certificates were submitted to the Chairman of the Committee on Assaying; the sets of coin and grain weights to the Chairman of the Committee on Weighing.

The following statement, "Annual Assay Coins Reserved During Calendar Year 1974," was made available to each Commissioner in his 1975 Assay Commission notebook.

Proceedings of the Annual Assay Commission for 1975

ANNUAL ASSAY COINS RESERVED

DURING CALENDAR YEAR 1974

<u>Denomination</u>	<u>Philadelphia</u>		<u>Denver</u>		<u>San Francisco</u>	
	<u>Pieces</u>	<u>Value</u>	<u>Pieces</u>	<u>Value</u>	<u>Pieces</u>	<u>Value</u>
Cupro-nickel clad dollars	367	\$ 367.00	464	\$ 464.00	--	--
Uncirculated silver dollars	--	--	--	--	80	\$80.00
Cupro-nickel halves	2,550	1,275.00	1,296	648.00	--	--
Cupro-nickel quarters	7,037	1,759.25	4,388	1,097.00	--	--
Cupro-nickel dimes	9,415	941.50	11,378	1,137.80	--	--
	19,369	\$4,342.75	17,526	\$3,346.80	80	\$80.00

The Commission was recessed by the Chairman until Wednesday afternoon, February 12, 1975, so that the committee members could proceed with their respective duties.

WEDNESDAY AFTERNOON, FEBRUARY 12, 1975

The duties of the Counting, Weighing and Assaying Committees were officially completed at 3:35 p.m. The Chairman then called the Commission to order. The reports of the committees follow:

Proceedings of the Annual Assay Commission for 1975

REPORT OF THE COMMITTEE ON COUNTING

Mr. Chairman and Members of the Assay Commission:

Your Committee on Counting reports that the packages said to contain the pieces reserved by the Mints for the trial of coins, in accordance with Title 31, Section 352, United States Code, were delivered to us by Mr. Frank H. MacDonald, Acting Director of the Mint.

Verification of the coins reserved was made, on the basis of samples, by checking them against the original record of coin deliveries and reservations for assay in respect to the Mint at Philadelphia, Pennsylvania, and against transcripts furnished the Committee showing reservations for assay from the Mint at Denver, Colorado, and the United States Assay Office at San Francisco.

At random we selected from the deliveries a certain number of packages, and it was the intention of the Committee to include all denominations. Of the packages selected, the coins contained therein were counted, and the number of coins contained in each envelope was noted in the tables which follow for each Mint.

Total coins counted were as follows:

Philadelphia	3,604
Denver	437
San Francisco	<u>14</u>
Total	4,055

Chairman Wilde called for a motion to accept the report of the Committee on Counting. Mr. Robert E. Steele moved that the report be accepted and the motion was seconded by Mr. Gordon B. Hunt. The report was accepted unanimously.

Total Coins Counted	23
---------------------	----

DURING 1974

[illegible]

Total Coins Counted	344
---------------------	-----

Total Coins Counted	826
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REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON COUNTING

Dimes

Coined at

Philadelphia

Denomination

Mint

DURING 1974

Date of Delivery Month Day	No. of Delivery	Quantity Delivered	Pieces Required	Pieces Counted
Aug. 26	80	\$1,100,000.00	220	220
Jan. 14	1	\$1,500,000.00	300	300
Sept. 3	83	\$2,113,000.00	211	211
Envelope #2	"	--	212	212
April 2	34	\$1,916,000.00	192	192
Envelope #2	"	--	192	192
Oct. 8	98	\$3,210,000.00	321	321
Envelope #2	"	--	321	321
Oct. 1	95	\$2,202,000.00	220	220
Envelope #2	"	--	221	221

Total Coins Counted 2410

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON COUNTING

Dollars (Ag) Coined at San Francisco

Denomination Mint

DURING 1974

Date of Delivery		No. of Delivery	Quantity Delivered	Pieces Required	Pieces Counted
Month	Day				
Oct.	10	SC-4	\$100,000.00	2	2
July	16	SC-1	\$360,000.00	6	6

Total Coins Counted 8

Proceedings of the Annual Assay Commission for 1975

COMMITTEE ON COUNTING

William J. Krieg, Chairman

Charles F. Long, Co-Chairman

Edward K. Elden

Alfred L. Longo

Ordon B. Hunt

Claude B. Layfield

William E. Elms.

Mark P. Sawyer

Richard W. Grubbs

Proceedings of the Annual Assay Commission for 1975

REPORT OF THE COMMITTEE ON WEIGHING

Mr. Chairman and Members of the Assay Commission:

The weights were received from the National Bureau of Standards and delivered to the Chairman of the Committee by Chairman Wilde. The values of the weights were reported on National Bureau of Standards Reports of Calibration.

The errors shown on the Reports of Calibration were determined by the Committee to be negligible with respect to the use of the weights in weighing coins. The weights were accordingly used at nominal value.

The Committee on Weighing reports that it selected, on the basis of millions of dollars of coinage as indicated in the statement "Domestic Coinage Executed During Calendar Year 1974," coins from the Philadelphia and Denver Mints, and the San Francisco Assay Office. These coins were taken from different deliveries and are believed to be adequately representative of the year's coinage at each Mint.

The Philadelphia Mint furnished two balances for the use of the Committee on Weighing. Two weighing teams were established. Before and during the weighing, the balances were checked for sensitivity and accuracy.

The samples of coins were chosen at random from the coins from the Pyx Box. The result of each weighing is reported separately.

All coins were weighed with a precision of 0.10 grain and so reported. All coins were found to be within the tolerance.

Chairman Wilde called for a motion for acceptance of the report of the Committee on Weighing. Dr. Nelson Page Aspen moved that the report be accepted, which motion was seconded by Mr. Federico Claveria. The report was accepted unanimously.

Proceedings of the Annual Assay Commission for 1975

The following table shows the maximum deviation of the heaviest and lightest coins of the denomination set forth therein.

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON WEIGHING

		<u>Philadelphia</u>		<u>Denver</u>		<u>San Francisco</u>	
	<u>Allowed</u> <u>Deviation</u>	<u>Heavy</u>	<u>Light</u>	<u>Heavy</u>	<u>Light</u>	<u>Heavy</u>	<u>Light</u>
<u>Denomination</u>	<u>Grains</u>	<u>Grains</u>	<u>Grains</u>	<u>Grains</u>	<u>Grains</u>	<u>Grains</u>	<u>Grains</u>
Dollars:							
Silver clad	± 15.2	--	--	--	--	0	3.5
Cupro-nickel clad	± 14.0	.5	.2	3.7	9.4	0	10.2
Half Dollars	± 7.0	3.0	2.5	0	2.5	--	--
Quarter Dollars	± 3.5	1.3	.9	0	1.7	--	--
Dimes	± 1.5	.2	0	.3	.1	--	--

Dimes ± 1.4 grains

Actual Deviation: + 0 - 2.5

Actual Deviation: + 0 - .7

Actual Deviation: + 0 - .9

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975
COMMITTEE ON WEIGHING

Dimes Coined at Philadelphia
Denomination Mint

DURING 1974

Date of Delivery		No. of Delivery	Deviation from Standard Weight in Grains	
Month	Day		Heavy	Light
Oct.	8	98	.2	

Allowable Deviation:

Silver Clad Dollar \pm 15.2 grains
Cupro-Nickel Dollar \pm 14 grains
Half Dollar \pm 7 grains
Quarter Dollar \pm 3.5 grains
Dimes \pm 1.4 grains

Actual Deviation: + .2 - 0

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975
COMMITTEE ON WEIGHING

Halves

Coined at

Denver

Denomination

Mint

DURING 1974

[illegible]

Allowable Deviation:

Silver Clad Dollar \pm 15.2 grains

Cupro-Nickel Dollar \pm 14 grains

Half Dollar \pm 7 grains

Quarter Dollar ± 3.5 grains

Dimes ± 1.4 grains

Actual Deviation: + 0 - 2.5

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON WEIGHING

Quarters _____ Coined at _____ Denver
Denomination _____ Mint

DURING 1974

Date of Delivery Month Day		No. of Delivery	Deviation from Standard Weight in Grains	
			Heavy	Light
Aug.	30	N-353		1.7
Aug.	30	N-353		1.0
Aug.	30	N-353		1.0
Aug.	30	N-353		1.505
Aug.	30	N-353		1.7
Aug.	30	N-353		1.7
Aug.	30	N-353		1.4
Aug.	30	N-353		.7
Aug.	30	N-353		.905
Aug.	30	N-353		.9

Allowable Deviation:

Silver Clad Dollar \pm 15.2 grains

Cupro-Nickel Dollar \pm 14 grains

Half Dollar \pm 7 grains

Quarter Dollar \pm 3.5 grains

Dimes \pm 1.4 grains

Actual Deviation: + 0 - 1.7

Actual Deviation: + 0 - 10.2

Proceedings of the Annual Assay Commission for 1975

COMMITTEE ON WEIGHING

George D. Hater, Chairman

Federico Claveria, Co-Chairman

Edward J. Black
John Dink Laley

Andrew King

David Shapiro

Fay C. Smith

Robert E. Steele

James C. Smith

Proceedings of the Annual Assay Commission for 1975

REPORT OF THE COMMITTEE ON ASSAYING

Mr. Chairman and Members of the Assay Commission:

In compliance with Section 3547 of the Revised Statutes, the Committee on Assaying is pleased to report that the assays have been completed on samples taken from different lots of coin, representing denominations coined during the calendar year 1974, by the United States Mints at Philadelphia, Pennsylvania, and Denver, Colorado, and the United States Assay Office at San Francisco, California, except for 1-cent and 5-cent coins.

No gold was coined at any of the Mints during the year.

The assay balances were tested and found to be in adjustment. The weights used for weighing the samples for assay were checked against a set that had been standardized by the National Bureau of Standards and delivered to the Commission by its Director. The reagents were checked for chlorine and found to be negative.

The method used in assaying cupro-nickel clad coins involved direct determination of the nickel content; the copper is reported by difference. On a qualitative basis, the Committee determined the absence of any third metal other than trace quantity. It was determined that the chemical reagents used in the cupro-nickel analysis were free of impurities.

The results of assays made on individual coins from each Mint and mass melts of coins are shown in the following schedules. They were considered correct by the Committee, being well within the limits of tolerance.

Chairman Wilde called for a motion to accept the report of the Committee on Assaying. Mr. Edward J. Black moved that the report be accepted. The motion was seconded by Mr. Rudi F. Saenger. The report was unanimously accepted by the Commission.

Proceedings of the Annual Assay Commission for 1975

The Committee on Assaying in toto report follows:

CUPRO-NICKEL CLAD COINS

	<u>Copper Percent</u>		<u>Nickel Percent</u>	
	<u>Highest</u>	<u>Lowest</u>	<u>Highest</u>	<u>Lowest</u>
Philadelphia Mint	92.13	91.59	8.41	7.87
Denver Mint	92.11	91.54	8.46	7.89

RESULTS OF MASS MELTINGS

	<u>Copper Percent</u>		<u>Nickel Percent</u>	
	<u>Highest</u>	<u>Lowest</u>	<u>Highest</u>	<u>Lowest</u>
Philadelphia Mint	91.96		8.04	
Denver Mint	91.90		8.10	

40% SILVER-CLAD DOLLARS

	<u>Silver Fineness</u>	
	<u>Highest</u>	<u>Lowest</u>
San Francisco Assay Office	400.8	399.2

RESULTS OF MASS MELTINGS

	<u>Silver Fineness</u>	
	<u>Highest</u>	<u>Lowest</u>
San Francisco Assay Office	399.4	

COMMITTEE ON ASSAYING

Philadelphia

Coined at

Denomination

Mint

DURING 1974

	<u>Cu</u>		<u>Ni</u>
H	91.95	H	8.34
L	91.66	L	8.05

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON ASSAYING

Halves _____ Coined at Philadelphia
 Denomination _____ Mint

DURING 1974

Date of Delivery Month Day	No. of Delivery	Quantity	Assay No.	Copper Percent	Nickel Percent
Sept. 30	94	1	A-4	91.82	8.18
July 31	70	1	A-5	91.92	8.08
Aug. 5	71	1	A-6	91.59	8.41
April 1	33	1	A-7	91.95	8.05
Feb. 1	9	1	A-8	91.99	8.01
Oct. 21	102	1	A-9	91.91	8.09

	<u>Cu</u>		<u>Ni</u>
H	91.99	H	8.41
L	91.59	L	8.01

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON ASSAYING

Quarters _____ Coined at _____ Philadelphia
Denomination _____ Mint

DURING 1974

Date of Delivery Month Day	No. of Delivery	Quantity	Assay No.	Copper Percent	Nickel Percent
July 24	65	1	A-10	92.02	7.98
May 30	51	1	A-11	91.98	8.02
Nov. 13	106	1	A-12	91.72	8.28
Aug. 14	76	1	A-13	91.89	8.11
Oct. 9	99	1	A-14	92.01	7.99
Sept. 4	84	1	A-15	91.94	8.06
Jan. 25	7	1	A-16	91.81	8.19
May 8	45	1	A-17	92.07	7.93
Oct. 30	103	1	A-18	91.92	8.08

	<u>Cu</u>		<u>Ni</u>
H	92.07	H	8.28
L	91.72	L	7.93

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON ASSAYING

Dimes Coined at Philadelphia
Denomination Mint

DURING 1974

Date of Delivery Month Day	No. of Delivery	Quantity	Assay No.	Copper Percent	Nickel Percent
April 19	39	1	A-19	91.96	8.04
Oct. 15	101	1	A-20	92.13	7.87
Aug. 6	72	1	A-21	91.99	8.01
Sept. 10	86	1	A-22	91.94	8.06
March 5	24	1	A-23	91.86	8.14
March 26	32	1	A-24	91.88	8.12
Jan. 25	5	1	A-25	92.07	7.93
Aug. 13	75	1	A-26	91.98	8.02
Nov. 26	112	1	A-27	91.82	8.18
April 9	36	1	A-28	91.91	8.09
Oct. 1	95	1	A-29	91.95	8.05
Sept. 17	89	1	A-30	91.96	8.04

	<u>Cu</u>		<u>Ni</u>
H	92.13	H	8.18
L	91.82	L	7.87

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON ASSAYING

Dollars (Ag) Coined at San Francisco
Denomination Mint

DURING 1974

Date of Delivery		No. of Delivery	Quantity	Assay No.	Silver Fineness	
Month	Day					
Oct.	18	SC-7	1	C-1	399.2	
July	19	SC-2	1	C-2	399.6	
Oct.	16	SC-6	1	C-3	400.2	
July	25	SC-3	1	C-4	400.8	
Oct.	15	SC-5	1	C-5	399.2	

Ag
H 400.8
L 399.2

<u>Cu</u>		<u>Ni</u>	
H	91.96	H	8.10
L	91.90	L	8.04

Halves

Denver

Coined at

Denomination

Mint

DURING 1974

[illegible]

Cu

Ni

H 92.11 H 8.12

L 91.88 L 7.89

REPORT OF THE ANNUAL ASSAY COMMISSION FOR 1975

COMMITTEE ON ASSAYING

Quarters _____ Coined at _____ Denver
 Denomination _____ Mint

DURING 1974

Date of Delivery Month Day	No. of Delivery	Quantity	Assay No.	Copper Percent	Nickel Percent
Jan. 28	N 37	1	B-3	91.96	8.04
Aug. 6	N 317	1	B-9	91.99	8.01
Aug. 7	N 319	1	B-10	92.02	7.98
Aug. 8	N 321	1	B-11	91.82	8.18
Aug. 23	N 343	1	B-12	91.78	8.22
Aug. 22	N 341	1	B-13	91.96	8.04
Dec. 31	N 608	1	B-14	92.07	7.93
Dec. 30	N 604	1	B-15	91.93	8.07
Sept. 30	N 397	1	B-16	91.99	8.01
Sept. 27	N 394	1	B-17	91.88	8.12
Sept. 26	N 391	1	B-18	92.10	7.90

	<u>Cu</u>		<u>Ni</u>
H	92.10	H	8.22
L	91.78	L	7.90

Proceedings of the Annual Assay Commission for 1975

COMMITTEE ON ASSAYING

El. Charles R. Stearns Chairman

Morton Reed, Co-Chairman

Stude F. Sanger

Wilson Page Lopez

James H. Cohen

Eric Engstrom

Frederick M. Burton

Hayle Lawrence

Arthur M. Little III

Roy T. Engle

Allan S. Ryan

Proceedings of the Annual Assay Commission for 1975

The following resolutions were unanimously adopted by the Commission:

Resolved, That we the members of the Assay Commission for 1975 have examined and tested the coins reserved for assay in accordance with the provisions of Title 31 of the United States Code, in the presence of the Acting Director of the Mint, do hereby find, conclude and determine that such coins are acceptable as to fineness and weight and the trial is hereby considered and reported as satisfactory.

Resolved, That the Commission wishes to commend the United States Mint, its Director, Mrs. Mary Brooks; Mr. Nicholas Theodore, Superintendent of the Mint at Philadelphia; Mrs. Betty Higby, Superintendent of the Denver Mint; and Mr. Bland T. Brockenborough, Officer in Charge of the San Francisco Assay Office, and all the employees of the Mints for their faithful and continuous production of coinage during 1974.

Resolved, That the President of the United States be advised that the members of the Commission appreciate the opportunity to serve on the 1975 Assay Commission and that he be advised of the gracious and cooperative assistance and guidance offered by Mr. Frank H. MacDonald, Acting Director of the Mint, on behalf of Mrs. Mary Brooks, Director of the Mint, and of the employees and officials of the Mint and other government officials who aided the Commission in performing its functions.

Resolved, That the 1975 Assay Commissioners regret the inability of the Director of the Mint, Mrs. Mary Brooks, to be in attendance at the meeting and extend to her their best wishes for a speedy recovery.

There being no further business before the Commission, Chairman Wilde stated he would entertain a motion to adjourn sine die. A motion to adjourn was made by Mr. Edward K. Elder and was seconded by Mrs. Gerda H. M. Birkholz. Upon the vote of the Commission, the Chairman declared it adjourned sine die at 3:50 p.m.

Proceedings of the Annual Assay Commission for 1975

1975 ASSAY COMMISSION MEMBERS

Frederick W. Bertram

Edward J. Black

Gordon B. Schubert

Andrew Kerr

Robert E. Steels

~~Eric Engstrom~~

Claude B. Layfield

William S. King

Federico Blaveria

Roy T. Englebert

William C. Elms

Norton Seed

George D. Hattie

John Dick Lof

Edward K. Egan

Richard W. Roberts

Frank S. Sanger

Charles F. Long

Wayne Lawrence

Fay C. Smith

John M. Feltus

Mark P. Sawyer

Allan S. Ryan

Adrian G. Wilde, Jr.

James H. Cohen

Daniel Shapiro

Dr. Charles R. Stearns

Alfred L. Longo

Wilson Page, Jr.

James P. Smith

U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON, D.C. 20234

Test No. G42673, Set A

REPORT OF CALIBRATION

For: The Annual Assay Commission

Item: Set of Coin and Grain Mass Standards, Designated Set A

Assumed Density: 100c to 50c, 7.8 g/cm^3 at 0°C ;
25c to 10c, 7.8 g/cm^3 at 20°C ;
10 grain to 0.1 grain, 21.5 g/cm^3 at 0°C ;
0.05 grain to 0.01 grain, 2.7 g/cm^3 at 0°C

The above items have the mass values shown with reference to the NBS standard of mass.

Item	Apparent Mass vs. Brass Value	
	Grain	Gram
100c	350.00589	22.68000
100s	379.51410	24.59210
50c	175.00720	11.34028
25c	87.50163	5.67001
10c	35.00167	2.26805
10 grain	9.99968	0.64797
5 grain	4.99991	0.32399
2 grain .	1.99994	0.12959
2 grain ..	2.00012	0.12961
1 grain	1.00065	0.06484
0.5 grain	0.49966	0.03238
0.2 grain .	0.19991	0.01295
0.2 grain ..	0.19966	0.01294
0.1 grain	0.09972	0.00646
0.05 grain	0.05005	0.00324
0.02 grain .	0.02023	0.00131
0.02 grain ..	0.02025	0.00131
0.01 grain	0.01012	0.00066

The National Bureau of Standards uses the relationship 1 grain equals 0.064 798 91 gram.

For the Director,
Paul E. Pontius
Paul E. Pontius, Chief
Mass and Volume Section
Optical Physics Division

Submitted by: The Director of the Mint

Test completed: 6 February 1975
Washington, D. C. 20234

U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON, D.C. 20234

Test No. G42673, Set B

REPORT OF CALIBRATION

For: The Annual Assay Commission

Item: Set of Mass Standards 1g to 1mg, Designated Set B
(Maker's Serial No. M.G.W-N.1)

Assumed Density: 1g to 10mg, 21.5 g/cm³ at 0°C;
5mg to 1mg, 2.7 g/cm³ at 20°C.

The above items have the mass values shown with reference to the NBS standard of mass.

Item	Apparent Mass vs. Brass Value	
	Gram	
0	1.0000689	
5	0.5000474	
3	0.3000147	
2	0.2000193	
1	0.1000030	
⬡	0.0500079	
Δ	0.0300043	
<	0.0200029	
∟	0.0099974	
5	0.0049898	
3	0.0029948	
2	0.0019905	
1	0.0009967	

For the Director,

Paul E. Pontius

Paul E. Pontius, Chief
Mass and Volume Section
Optical Physics Division

Submitted by: The Director of the Mint

Test completed: 6 February 1975
Washington, D. C. 20234

U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON, D.C. 20234

Test No. G42673, Set C

REPORT OF CALIBRATION

For: The Annual Assay Commission

Item: Set of Coin and Grain Mass Standards, Designated Set C.

Assumed Density: 100c. to 50c., 7.8 g/cm^3 at 0°C ;
25c. to 10c., 7.8 g/cm^3 at 20°C ;
10 grain to 0.1 grain, 21.5 g/cm^3 at 0°C ;
0.05 grain to 0.01 grain, 2.7 g/cm^3 at 0°C .

The above items have the mass values shown with reference to the NBS standard of mass.

Item	Apparent Mass vs. Brass Value	
	Grain	Gram
100c .	350.00589	22.68000
100s .	379.51533	24.59218
50c .	175.00418	11.34008
25c .	87.50286	5.67009
10c .	35.00198	2.26809
10 grain	10.00009	0.64799
5 grain	5.00009	0.32400
2 grain	1.99995	0.12959
2 grain .	1.99992	0.12959
1 grain	0.99988	0.06479
0.5 grain	0.49985	0.03239
0.2 grain	0.20006	0.01296
0.2 grain .	0.19992	0.01295
0.1 grain	0.09995	0.00648
0.05 grain	0.04997	0.00324
0.02 grain .	0.02000	0.00130
0.02 grain ..	0.01853	0.00120
0.01 grain	0.01008	0.00065

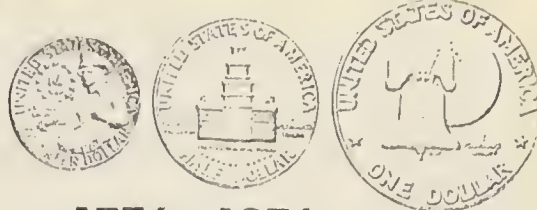
The National Bureau of Standards uses the relationship 1 grain equals 0.064 798 91 gram.

For the Director,

Paul E. Pontius
Paul E. Pontius, Chief
Mass and Volume Section
Optical Physics Division

Submitted by: The Director of the Mint

Test completed: 6 February 1975
Washington, D. C. 20234



1776 - 1976
Bicentennial Assay Commission

W E L C O M E

FEBRUARY 11

PHILADELPHIA, PENNSYLVANIA

S C H E D U L E

- 9:30 A.M. OPENING OF OFFICIAL SESSION OF THE 1976 BICENTENNIAL
ASSAY COMMISSION - ASSAY ROOM - UNITED STATES MINT
PRESENTATION OF PRESIDENTIAL COMMISSIONS
ELECTION OF OFFICERS AND COMMITTEES
- 11:00 A.M. RECESS
PRESS INTERVIEWS
- 12:00 NOON LUNCHEON - SPAT'S - 27 SOUTH BANK STREET
- 2:00 P.M. OFFICIAL SESSION
COMMITTEE REPORTS
APPROVAL OF FINAL REPORT TO THE PRESIDENT
- 4:30 P.M. ADJOURNMENT
- 7:00 P.M. RECEPTION
LUIGI'S TRATTORIA, 511 SOUTH SECOND STREET
- 8:00 P.M. DINNER
PRESENTATION OF 1976 ANNUAL ASSAY COMMISSION MEDAL

